

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A hand-held digital camera, ~~comprising:~~

that comprises

an image ~~sensing means~~ sensor for sensing an image and generating a signal carrying image data;

a reader for reading image processing instructions and generating a signal carrying processing data;

~~modification means~~ a number of substantially identical processing units configured to work in parallel and connected to the image sensor and the reader for ~~modifying said sensed~~ receiving both the image data and the processing data and for processing the image data in accordance with ~~modification~~ the image processing instructions input into said camera from an ~~inbuilt input means~~ to generate dithered image data representing an image processed according to the processing instructions, the processing units being configured to define a VLIW vector processing assembly; and

~~an output means for printing out said modified image;~~

~~wherein said modification means includes a series of processing elements arranged around a central crossbar switch that can selectively be configured to pass data of the sensed image directly between the processing elements via the crossbar switch~~ is configured to facilitate communication between the processing units; and

a printer connected to the processing units for receiving the dithered image data and for printing the processed image.

2. (Currently amended) A hand-held digital camera as claimed in claim 1, wherein each of said processing ~~elements~~ units includes an Arithmetic Logic Unit (ALU) ~~acting under the control of a microcode store, wherein said microcode store comprises a writeable control store that defines registers and arithmetic logic for use by the processing unit.~~

3. - 20. (Cancelled).

21. (New) A hand-held digital camera as claimed in claim 1, which includes a sensor interface for receiving signals from the image sensor and an input FIFO buffer interposed between the sensor interface and the processing units.

22. (New) A hand-held digital camera as claimed in claim 1, in which the reader is in the form of a card scanner that is configured to scan a card carrying a two-dimensional optical code that defines the image processing instructions.

23. (New) A hand-held digital camera as claimed in claim 22, which includes a card scanner interface for receiving signals from the card scanner and an input FIFO buffer interposed between the card scanner interface and the processing units.

24. (New) A hand-held digital camera as claimed in claim 1, which includes four processing units micro-coded to perform image processing functions.

25. (New) A hand-held digital camera as claimed in claim 1, in which the printer is in the form of a pagewidth inkjet printer and the camera includes a printhead interface and an output FIFO buffer interposed between the printhead interface and the processing units.